



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H129060-E

Mode: Highway

Status: Submitted

US-221

From/Cross Street: US 221 Bypass

Specific Improvement Type: 1 - Widen Existing Roadway

To: US 221 Business/NC 88 in Jefferson

Project Category: Regional Impact

Length: 3.55

TIP#: R-2915E

Fully Funded in Draft STIP? No

Cost to NCDOT: \$16,350,000

Description:

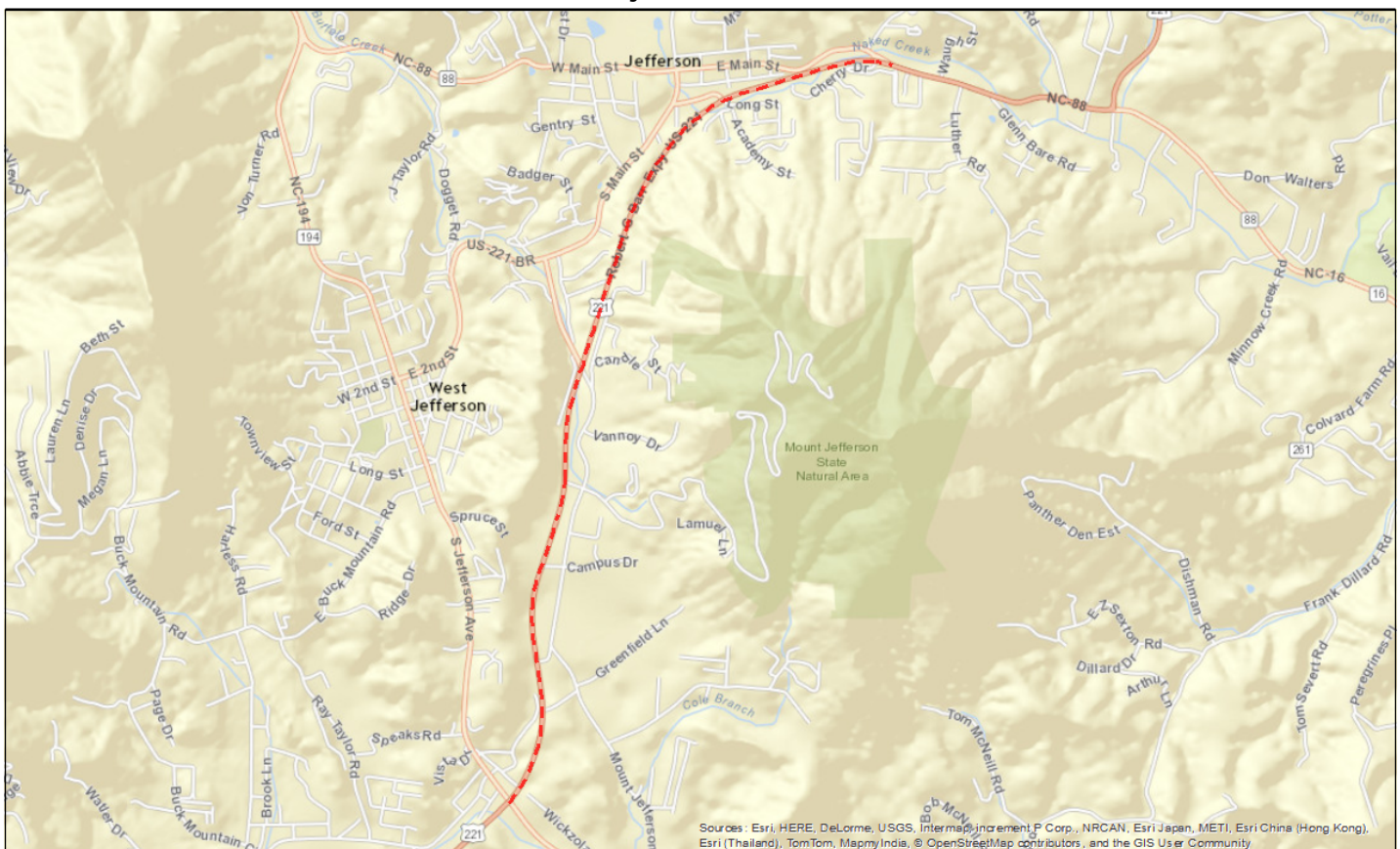
Widen to Multi-Lanes

Division(s): Division 11

County(s): ASHE

MPOS(s)/RPO(s): High Country RPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 48.26

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 52.37	Percent: 15%	Percent: 15%
Safety (10%) 41.54	Points: 100	Points: 100
Accessibility / Connectivity (10%) 10.17		
[Travel Time] Benefit/Cost (25%) 0.00		
Totals: Weight: 70% Weighted Score: 18.26		

Division Needs Total Score: 39.63

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 52.37	Percent: 25%	Percent: 25%
Safety (10%) 41.54	Points: 0	Points: 100
[Travel Time] Benefit/Cost (20%) 0.00		
Totals: Weight: 50% Weighted Score: 14.63		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	3.55
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	12261.96
Capacity:	15500
Volume/Capacity Ratio:	0.79
% Autos:	94%
% Trucks:	6%
Truck Volume:	734.94
Crash Density:	47.37
Crash Severity:	43.92
Critical Crash Rate:	33.34
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	21
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	69
Actual Congested Speed:	42.66
Travel Time Index:	1.29

Project Benefits

Project Cross-Section:	4C - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	3.55
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	-5240310.09
Travel Time Savings for 30 Years (Autos):	-4926222.21
Travel Time Savings for 30 Years (Trucks):	-314087.88
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 11

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 11	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
High Country RPO	100%	100	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	100

Project Cost and Source

Construction Cost:	\$15,400,000	TIP Unit
Right-of-Way Cost:	\$900,000	TIP Unit
Utilities Cost:	\$50,000	TIP Unit
Total Project Cost:	\$16,350,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$16,350,000	